

T.C.  
ERCIYES UNIVERSITY  
GRADUTE SCHOOL OF EDUCATIONAL SCIENCES  
Department of Mathematics and Science Education

2023-2024 Spring Semester Courses to be offered in Graduate Programs and Course Assignments

Science Education (MA) Program Course Assignments

Course Unit Code	Course Unit Title	Type of Course Unit (Compulsory/Elective)	T	U	K	Faculty Member
İFE500	Seminar	Compulsory	0	2	6	Prof. Dr. İshak Afşin KARİPER
İFE501	Quantitative Research Methods in Science Education	Elective	3	0	6	Prof. Dr. Mustafa METİN
İFE502	Qualitative Research Methods in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Ebru EZBERCİ ÇEVİK
İFE505	New Approaches in Science Teaching	Elective	3	0	6	Assoc. Prof. Dr. Fulya ÖNER ARMAĞAN
İFE506	Computer Assisted Science Education	Elective	3	0	6	Prof. Dr. Uğur BÜYÜK
İFE509	Science Philosophy	Elective	3	0	6	Prof. Dr. Oktay BEKTAŞ
İFE510	Special Topics in Biology Education	Elective	3	0	6	Assoc. Prof. Dr. Mustafa HAMALOSMANOĞLU
İFE512	Special Topics in Chemistry Education	Elective	3	0	6	Prof. Dr. Murat SARAÇOĞLU
İFE516	International Approaches in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Ebru EZBERCİ ÇEVİK
İFE522	Physics and Life	Elective	3	0	6	Prof. Dr. Hasan KAYA
İFE527	STEM Education in Science	Seçmeli	3	0	6	Assoc. Prof. Dr. Esra KIZILAY
İFE530	Physics II	Elective	3	0	6	Prof. Dr. Emine GÜNERİ
İFE531	Statistics I	Elective	3	0	6	Prof. Dr. Oktay BEKTAŞ
İFE532	Fundamentals of Mixed Research Method	Elective	3	0	6	Prof. Dr. Oktay BEKTAŞ
İFE536	Teaching of Socioscientific Issues in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Aslı SAYLAN KIRMIZIGÜL

**Science Education (PHD) Program Course Assignments**

Course Unit Code	Course Unit Title	Type of Course Unit (Compulsory/Elective)	T	U	K	Faculty Member
İFE600	Seminar	Compulsory	0	2	6	Prof. Dr. Sibel SARAÇOĞLU
İFE602	Advanced Qualitative Research Methods	Elective	3	0	6	Prof. Dr. Mustafa METİN
İFE604	Research and Literature Analysis in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Fulya ÖNER ARMAĞAN
İFE606	Measurement Tool Development in Science Education	Elective	3	0	6	Prof. Dr. Oktay BEKTAŞ
İFE610	Science-Technology-Society-Environment V (Astronomical Events)	Elective	3	0	6	Prof. Dr. Hasan KAYA
İFE611	Scientific Process Skills	Elective	3	0	6	Prof. Dr. Uğur BÜYÜK
İFE618	Teacher Education and Qualifications in Science	Elective	3	0	6	Prof. Dr. Uğur BÜYÜK
İFE624	Teaching Basic Biology Concepts with Constructivist Approach	Elective	3	0	6	Assoc. Prof. Dr. Mustafa HAMALOSMANOĞLU
İFE625	Engineering Applications in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Esra KIZILAY
İFE628	Interdisciplinary Approaches in Science Education	Elective	3	0	6	Assoc. Prof. Dr. Esra KIZILAY
İFE630	Academic Article Writing	Elective	3	0	6	Prof. Dr. Mustafa METİN

**Assoc. Prof. Dr. Fulya ÖNER ARMAĞAN**  
Head of Science Department

**Prof. Dr. Danyal SOYBAŞ**  
Head of Department